

Patent Claims

1. Said transport device (1) for transporting goods, preferably on pallets or the like,
5 along a transport path with at least two said lateral, driven peripheral traction elements (2), especially transport chains, characterized in that said support elements (3), by which the goods or the pallet are supported, are fixed, preferably articulated, to the said peripheral traction element (2).
- 10 2. Transport device in accordance with claim 1, characterized in that the said support elements (3) are arranged at closely spaced locations next to one another in a row along the traction element and they essentially cover the said peripheral traction element (2).
- 15 3. Transport device in accordance with claim 1 or 2, characterized in that each said peripheral traction element (2) has said support elements (3) of its own.
- 20 4. Transport device in accordance with one of the claims 1 through 4, characterized in that the said support elements (3) have an identical and one-piece design and have a said flat upper side (4).
- 25 5. Transport device in accordance with one of the claims 1 through 3, characterized in that

the said support elements (3) have exclusively a carrying function and the said traction elements (2) have exclusively a traction function.

6. Transport device in accordance with claim 5,

characterized in that

the said support elements (3) have at least one said lower sliding surface (5) and slide on a said stationary rail (6), especially a stainless steel rail, being supported by same.

7. Transport device in accordance with claim 6,

characterized in that

the said rail (6) has a longitudinal guiding function for the said support elements (3) or the said traction elements (2).

8. Transport device in accordance with one of the claims 1 through 7,

characterized in that

the said support elements are plastic parts, especially moldings, which are preferably provided with a self-lubricating effect, good slidability, good compressive strength and/or good impact resistance.

9. Transport device in accordance with one of the claims 4 through 8,

characterized in that

the said upper side (4) of the said support elements (3) has a slight upward arch in the said direction of transportation (F).

10. Transport device in accordance with one of the claims 4 through 9,

characterized in that

the said upper side (4) of the said support elements (3) has a said flat depression (7) in the said direction of transportation (F) in the area of the said traction element (2).

11. Transport device in accordance with one of the claims 1 through 10,

characterized in that

the said support elements (3) have an essentially inverted U-shaped cross section.

12. Transport device in accordance with one of the claims 1 through 10,

characterized in that

the said support elements (3) have an essentially double T-shaped cross section, and said integrated upper support surfaces (8) are also provided laterally from the said traction element (2) for the said goods or the said pallet.

13. Transport device in accordance with one of the claims 1 through 12,

characterized in that

the said support elements (3) have an at least two-layer design and have an upper elastic layer, which acts as a flexible, skid-resistant, flat support pad.

14. Transport device in accordance with one of the claims 1 through 13,

characterized in that

each said support element (3) is fixed to the said traction element (2), especially a transport chain, via at least one and preferably two said studs (9) at right angles to the said direction of transportation (F).

15. Transport device in accordance with one of the claims 1 through 14,

characterized in that

it is designed as a longitudinal transporter and/or as a transverse transporter.

16. Transport device in accordance with claim 15,
characterized in that

5 the longitudinal transporter has an additional middle support, especially an additional middle transport strand in the manner of the said lateral traction elements (2) and the said support elements (3), or an additional roller or sliding strip in the middle.

17. Transport device in accordance with one of the claims 1 through 16,
characterized in that

10 the said support elements (3) are fixed to the said traction element (2) in an easily detachable manner and can be replaced.

18. Transport device in accordance with one of the claims 1 through 17,
characterized in that

15 the said traction elements (2) and/or said rails (6) have a said lateral wall cover (12).